

Automatic Gear Transmission Apparatus

Abstract

5 An automatic gear transmission apparatus, capable of cooperating with a conventional manual transmission gearbox to provide an automatic gear transmission function. The automatic gear transmission apparatus comprises: a motor, a clutch mechanism, a gear selection mechanism, a gear transmission mechanism, and a sleeve rod. By means of the clutch
10 mechanism, output power from a single motor can be optionally transmitted out through the gear selection mechanism or the gear transmission mechanism. The power output by the gear selection mechanism can linearly activate the sleeve rod to proceed a gear selection action, while the power output by the gear transmission mechanism can rotationally activate
15 the sleeve rod to proceed a gear transmission action. Therefore, using only a single motor can drive the sleeve rod linearly or rotationally to proceed two actions of gear selection and gear transmission, respectively.